1.0 PURPOSE AND NEED 1

- 2 This chapter summarizes the need for transportation improvements along State Highway 75 (SH-75) in
- 3 south central Idaho and describes the purpose of the project⁴. It was prepared in accordance with the U.S.
- Department of Transportation Federal Highway Administration (FHWA) environmental regulations contained 4
- 5 in 23 CFR Part 771 Environmental Impact and Related Procedures and Technical Advisory 6640.8A
- 6 Guidance for Preparing and Processing Environmental and Section 4(f) Documents.

1.1 Summary Purpose and Need Statement

1.1.1 **Purpose** 8

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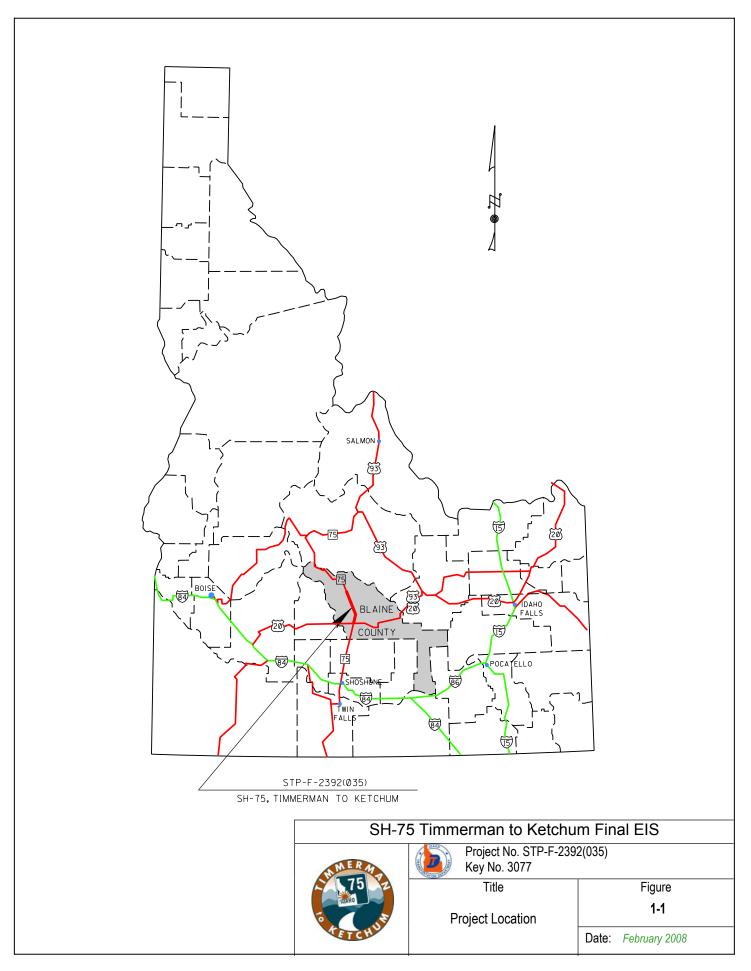
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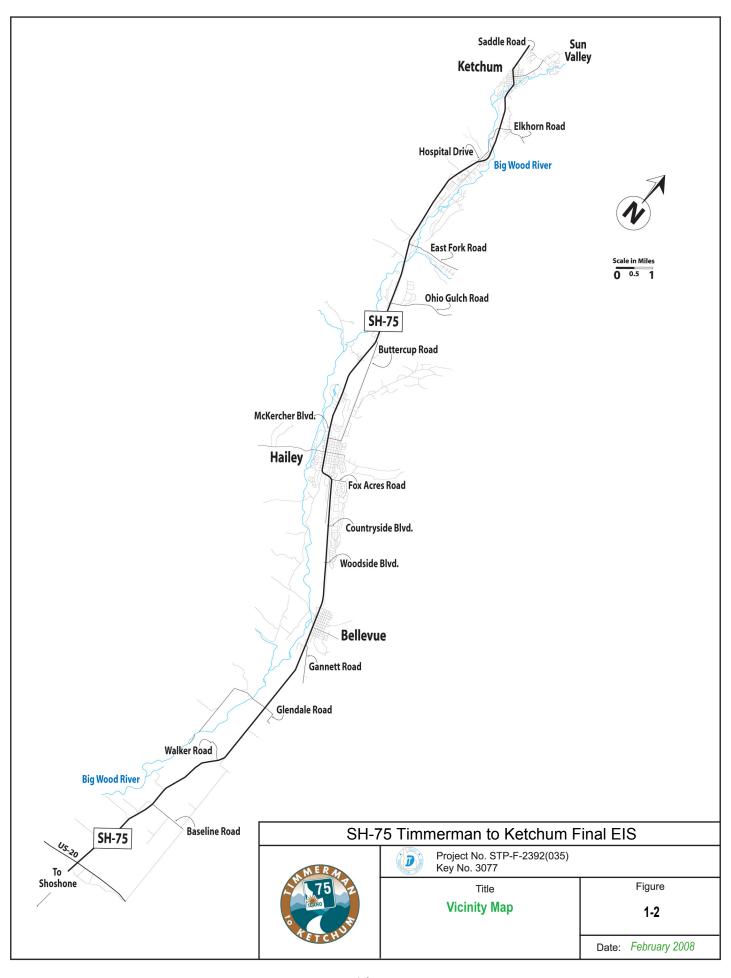
- 9 The purpose of the proposed project is two-fold:
- 10 To increase SH-75 roadway capacity to accommodate existing peak-hour vehicle traffic and future 11 year 2025 vehicle traffic; and
 - To increase transportation safety for all users.

1.1.2 Need

- 14 The need for this project is based on several factors:
 - Current and predicted future year 2025 peak hour travel demand exceeds available transportation capacity. Peak hour congestion is primarily from commuters traveling within the project limits.
 - Lack of shoulders, lack of right-turn lanes, and lack of center left-turn lanes at intersections create a safety and a capacity concern throughout the SH-75 corridor.
 - Pedestrians and bicyclists need safe access across SH-75 to access community resources.
 - Current peak hour bus transit and rideshare programs experience peak hour congestion.
- 21 In meeting these needs, the project will safely and efficiently move a growing population with diverse needs 22 and resources as well as move goods and materials to and through the Wood River Valley. The project will
- 23 minimize impacts to scenic, aesthetic, historic, and other environmental resources in accordance with
- 24 National Environmental Policy Act (NEPA) and 23 CFR Part 771 Environmental Impact and Related
- 25 Procedures. SH-75 has "Main Street" characteristics through the Cities of Bellevue, Hailey and Ketchum
- 26 that need to be maintained. The SH-75 project will use the existing highway corridor to help preserve future
- 27 transportation options.
- 28 The SH-75 study corridor begins at the Timmerman Rest Area junction with US 20 (SH-75 milepost 102.1)
- 29 and ends in Ketchum at Saddle Road (SH-75 milepost 129.25). Page 1-1, line 34 of the DEIS incorrectly
- 30 indicated that the project ends at Warm Springs Junction (SH-75 milepost 128.5). This is the only location
- 31 in the DEIS where this error occurs. Saddle Road is consistent with the Notice of Intent issued for the
- 32 project on October 4, 2000 and is still valid.
- 33 Figure 1-1 illustrates the project location within the State of Idaho; Figure 1-2 shows a vicinity map for the
- 34 project. The corridor is approximately 27 miles long.

⁴ Chapter 1 of the Draft Environmental Impact Statement provides a complete analysis of existing and future No-Build conditions, crash analysis, and analysis of existing and future needs.





1.2 Project Programming and Funding

- 2 The DEIS listed several projects in the SH-75 corridor on the then applicable Statewide Transportation
- 3 Improvement Program (STIP). Since publication of the DEIS, ITD has developed a new planning program,
- 4 "Horizons in Transportation" that is a long-range transportation plan. As well, an updated 2008-2012 STIP
- 5 is approved, as of the date of publication of this FEIS.
- The discussion in the DEIS under 1.1.3 "Statewide Transportation Improvement Program" and Table 1-1 on
- 7 page 1-4 of the DEIS is replaced by the following discussion.

8 1.2.1 Idaho Horizons Long Range Capital Improvement & Preservation Program (LRCIP)

- 10 The Idaho Transportation Department is implementing a Long Range Capital Improvement and Preservation
- Program (LRCIP) called "Horizons in Transportation". The LRCIP complements and provides the transition
- between the shorter five year project development and implementation years of the STIP and the longer
- 13 2034 Idaho Transportation Vision. The current LRCIP was formulated in September 2006.
- 14 The LRCIP is intended to become the long range planning process for the identification and development of
- STIP projects. It is organized into three "horizons" near horizon (6 to 10 years), mid horizon (11 to 15
- years out), and far horizon (16 years and beyond).
- 17 The Near Horizon includes the reconstruction and realignment of SH-75 between Bellevue and Hailey, listed
- 18 as Key #7836. This project falls within the logical termini and study area of the DEIS and is consistent with
- the improvements that were identified and evaluated in the DEIS.

20 1.2.2 Statewide Transportation Improvement Program (STIP)

- 21 SH-75 Timmerman to Ketchum was listed as Key #3077 on the STIP at the inception of the NEPA process
- 22 in 2000.

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- 23 ITD's current Fiscal Year 2008-2012 Statewide Transportation Improvement Program contains a project to
- acquire right-of-way for the Timberway to Hospital Drive portion of SH-75. The project is Key #07836. This
- project falls within the logical termini and study area of the DEIS and the improvements have been identified
- and evaluated in the DEIS.

27 1.2.3 Federal Funding

- Public Law 109-59 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: a Legacy for
- 29 Users (SAFETEA-LU) allocates funding for the SH-75 Timmerman to Ketchum project. SAFETEA-LU is
- the federal transportation funding authorization bill signed into law on August 10, 2005; it provides funding
- for the fiscal years 2005 to 2009.
- Three sections of SAFETEA-LU allocate a total of \$22.8 million for the SH-75 project evaluated in this EIS:
- Section 1702 High Priority Project #968 "Improve SH-75 from Timmerman to Ketchum" provides \$4.8 million
- Section 1702 Project #4038 "Transportation Improvements to Improve SH-75, Timmerman to Ketchum" provides \$16 million; and
- Section 1934(1)(2) Project #140 "Transportation Improvements to Improve SH-75, Timmerman to Ketchum" provides \$2 million

- 1 The \$22.8 million authorized by SAFETEA-LU will be used to advance a portion of the SH-75 project, as
- 2 described in Section 2.3 Phasing of the Preferred Alternative of this FEIS.

1.2.4 Future Funding

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- The reconstruction of SH-75 described in this FEIS is expected to occur over many years, in response to the availability of federal and state funding and as envisioned in ITD's "Horizons in Transportation".
- 6 Three federal transportation funding bills have been authorized since the early 1990's: Intermodal Surface
- 7 Transportation Efficiency Act (ISTEA) for fiscal years 1992 to 1997; Transportation Equity Act for the 21st
- 8 Century for fiscal years 1998 to 2003 (TEA-21); and SAFETEA-LU. Table 1-1 shows the funding allocated
- 9 to the State of Idaho from the last two funding bills.

Table 1-1: Federal Highway Funding for the State of Idaho

| Federal Funding Bill | Year | Idaho Allocation |
|----------------------|------|------------------|
| TEA-21 ⁵ | 1998 | \$174,073,000 |
| | 1999 | \$203,441,000 |
| | 2000 | \$208,483,000 |
| | 2001 | \$209,982,000 |
| | 2002 | \$213,867,000 |
| | 2003 | \$217,849,000 |
| SAFETEA-LU | 2005 | \$260,868,000 |
| | 2006 | \$264,199,000 |
| | 2007 | \$278,589,000 |
| | 2008 | \$288,460,000 |
| | 2009 | \$291,823,000 |

SAFETEA-LU, compared to TEA-21, provides the following increase in apportionments as a percentage of

12 TEA-21 Average Annual Apportionment:

13 FY2005 122.9% 14 FY2006 124.4% 15 FY2007 131.2% 16 FY2008 135.9%

17 FY2009 137.2%

The following graph illustrates the history of funding for highways in the State of Idaho from 1991 to 2003

from all sources, including ISTEA and TEA-21 allocations, state and local funding.

⁵ http://www.fhwa.dot.gov/tea21/est1200.xls

Source: http://www.fhwa.dot.gov/policy/ohim. Data for 2004 onwards not yet available on website.

* Data for 2001 not included on website.

Based on the history of federal and state funding of highways in the State of Idaho and the total capital expenditures on highways from all government sources, it is reasonable to conclude that federal funding and funding from state and local sources will continue to be available to fund right-of-way acquisition and construction of the SH-75 improvements evaluated in this FEIS.

1.2.5 History of Public/Private Partnerships in Transportation Facility Development

Completion of the SH-75 Timmerman to Ketchum project will also include a continuation of public/private partnerships to contribute to right-of-way acquisition and construction. The Idaho Transportation Department has partnered with both local governments and private development interests to construct portions of transportation facilities in the State.

The Wood River Valley has experienced high levels of sustained population growth, as evidenced by an average annual 4.1% population growth rate over a 30-year period, as shown in Table 3.1-1, page 3-1 of the DEIS. The associated land development has presented opportunities to develop public/private partnerships to implement improvements along the SH-75 corridor. These include:

- Golden Eagle Ranch Estates

 – Harry Rinker contributed \$500,000 plus highway right-of-way (ROW)
 and easements to the reconstruction of SH-75 in the Alturas to Timberway Project and its
 associated pedestrian/bicycle underpass.
- St. Luke's Hospital development Blaine County contribution matching funds and ROW totaling approximately \$1 million.
- ROW valued at approximately \$75,000 was donated to ITD by Walker Sand and Gravel for a turn bay at Walker Road.
- Hidden Hollow development Blaine County required the developer to provide a turn bay on SH-75 valued at \$250,000

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1 ITD has also successfully partnered with local governments and development interests on other projects, including:

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- I-84/Isaacs Canyon Interchange east of Boise. ITD District 3 partnered with Micron to construct this interchange.
- I-84/Franklin Interchange structure widening in Nampa, ID. ITD District 3 partnered with Micron to widen this structure.
- I-90/Beck Road Interchange between Post Falls and Washington State Line. ITD District 1 is partnering with Cabela's. The project is in development.

1.2.6 History of Phased Implementation of Projects in Idaho

The implementation of projects once a Record of Decision (ROD) or a Finding of No Significant Impact (FONSI) has been issued or a Categorical Exclusion has been approved is frequently accomplished through phasing, particularly of large or complex projects. ITD has successfully constructed projects in phases once a NEPA approval has been issued. Table 1-2 summarizes projects that ITD has phased after a FONSI or approval of a Categorical Exclusion has been approved. The table also includes projects that are in the STIP and/or the LRCIP and will be implemented in phases.

Table 1-2: Phased Idaho Projects

| Project Name/Key Number(s) | NEPA Approval (date and type) | Phased Implementation | Status of Phases |
|---|---|-----------------------|---|
| Twin Falls Alternative Route Twin Falls, Idaho | Environmental Assessment March 8, 2000 Re-evaluation September 29, 2004 | 2 phases or more | Phase I completed 2006 |
| US-95 Worley to Mica Coeur d'Alene, Idaho | Environmental Assessment September 18, 2000 | 4 phases | Final phase under construction |
| Wye IC – I-84 Boise, Idaho | Environmental Assessment July 9, 1984 | 3 Phases | Final construction completed |
| I-84/US-93 Interchange Reconstruction Twin Falls, Idaho | Categorical Exclusion 2001 | 2 Phases | Phase 1 completed |
| SH-20 Menan/Lorenzo and Thornton Interchanges | Environmental Assessment, August 9, 2007 | 2 Phases | Menan/Lorenzo programmed for construction 2009. Thornton IC is in the LRCIP Mid-Horizon. |
| I-84 Orchard to Eisenman | Environmental Assessment July 7, 2007 | 8 phases | All phases programmed in the 2008 to 2012 STIP as 8 individual GARVEE projects |
| US-30 McCammon to Lava | Environmental Assessment, June 3, 2003 | 6 Phases | All phases programmed in the 2008 to 2012 STIP as 6 individual GARVEE projects. Phase 1 under design. |

1.2.7 Funding Conclusion

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- 2 It is reasonable that the SH-75 project evaluated in this EIS can be funded and constructed based on the following:
- the inclusion of SH-75 project components in the LRCIP and the STIP;
- the existing SAFETEA-LU funding allocation for SH-75;
- the history of growth in federal and state highway funding since 1991;
- ITD's successful partnering with the private sector and local governments to implement transportation projects; and
 - ITD's success in implementing phased projects.

10 1.3 Need for Improvements

- 11 The need for improvements for SH-75 was determined by considering existing (year 2001) traffic operations,
- predicted year 2025 traffic operations, safety and crash analyses, and substandard roadway features.

13 1.3.1 Existing Traffic Operations

- 14 "Traffic" includes all vehicles on the roadway, regardless of the number of occupants. Traffic therefore
- includes single occupant vehicles, carpools, buses, recreational vehicles, motorcycles, and trucks. All
- contribute to and are part of the traffic stream.
- 17 The method that is used to evaluate traffic operations throughout the United States is one established by the
- 18 Transportation Research Board. Level of Service (LOS) is the transportation engineering standard in the
- 19 United States used to compare how a highway currently functions and how it will function in the future,
- 20 based on traffic and local conditions. There are six categories of LOS, as described in Table 1-1. These
- range from LOS A, commonly referred to as free flow, to LOS F, commonly referred to as "stop and go"
- conditions. To arrive at a LOS determination, the Highway Capacity Manual ¹ methodology was used. For
- the SH-75 project, capacity analyses were performed for four selected roadway segments and 16
- intersections using traffic movements at the busiest time of the day, the morning peak hour.
- 25 Figure 1-3 shows the existing Level of Service by roadway segment and intersection.

¹ Transportation Research Board, National Research Council, <u>Highway Capacity Manual</u>, 2000

Table 1-3: Levels of Service

| v/c ratio (LOS) | Roadway Segment Operating Characteristics | Visual Example |
|--------------------|--|-------------------|
| В | Represents free traffic flow, very few cars on roadway. In the range of free traffic flow, with some other motorists in the traffic stream begins to be noticeable. Some time spent following slower vehicles but appropriate gaps in traffic allows for passing with little delay. | |
| C | In the beginning range of traffic flow in which the operation of individual motorists becomes significantly affected by other motorists in the traffic stream. Time spent following slower vehicles is longer and occurs more frequently, but appropriate gaps in traffic allows for passing with moderate delay. | 7 = |
| D | Represents high-density traffic flow. Speed and freedom to maneuver are severely restricted, and the driver or pedestrian experiences a generally poor level of comfort and convenience. Time spent following slower vehicles is noticeably longer and occurs more frequently, and there are fewer gaps in traffic to allow for passing, increasing overall delay. | |
| E | Represents operating conditions at or above the capacity level. All speeds are reduced to a low and relatively uniform speed. Time spent following slower vehicles exceeds time not behind slower vehicles, and there are few if any gaps in traffic to allow for passing. | |
| F | Used to define intermittent stopping and moving at a very reduced speed. This condition exists wherever the amount of traffic exceeds the capacity of that point. Time spent following slower vehicles approaches 100 percent of the time traveling on a roadway segment, and there are likely no gaps in traffic to allow for passing. | / 直 |

1.3.2 Social, Economic and Multi-modal Needs

- 3 SH-75 is the only continuous roadway link in the Wood River Valley. Its function and operation have
- 4 implications for social, economic, and other aspects of the communities that it serves. It serves a wide
- 5 variety of users for many different trip purposes. The highway is the primary route for emergency services
- 6 vehicles and provides access to St. Luke's Hospital. Access to many recreational opportunities depends
- 7 upon SH-75.

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- 8 SH-75 plays an important role in facilitating multi-modal transportation, including public transportation,
- 9 bicycling, and access to Friedman Memorial Airport in the City of Hailey. Pedestrian access along and
- across SH-75 is an issue for local residents and businesses, both in the more rural areas as well as within
- the cities of Bellevue, Hailey and Ketchum.

1.3.2.1 History of Transit Development in Wood River Valley

- When this NEPA process was initiated in October 2000, the only public transit service within the study area
- 3 was KART (Ketchum Area Rural Transit), operating within the Cities of Ketchum and Sun Valley. Blaine
- 4 County commissioned a transit feasibility study; the resultant Blaine County Transit Feasibility Study was
- 5 published in 2001. It outlined a series of transit steps that the Wood River Valley communities could take to
- 6 initiate transit service and continue its development.
- 7 Peak Bus Commuter service was subsequently started in June 2002, with 3 daily trips between Bellevue
- 8 and Ketchum during the morning peak period and 3 during the evening peak period. Four years later, Peak
- 9 Bus and KART were merged in June 2006. The merger of Wood River Rideshare, the local rideshare entity,
- 10 with Peak Bus and KART into one regional transit authority was completed in August 2007. The resultant
- new Mountain Rides Transportation Authority was made official in October 2007
- 12 (http://www.mountainrides.org).

1.3.2.2 Transit Services Provided

- 14 From the initial six peak hour trips provided by Peak Bus in 2002, the provision of transit service has grown
- and its ridership has increased substantially. The following services are now provided in the Wood River
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- Peak Bus is now known as Down Valley service and monthly ridership averages 6500 riders per month, up over 50% from one year ago.
- Weekday bus service has been increased to six one-way trips going north in the morning and six coming south in the evening.
- Weekend bus service has been introduced, with six roundtrips on Saturday and five on Sunday.
 - Free fare zones within the City of Hailey and from St. Luke's Hospital into Ketchum were introduced.
 - A reduced fare of \$1 between Hailey and Bellevue was introduced. The normal fare between Bellevue and Ketchum is \$2.25 for an adult.
 - Four vans were purchased and four vanpools now operate from Twin Falls, Jerome, and Shoshone areas. These cities and town are located 70 miles, 61 miles, and 40 miles, respectively, south of the City of Hailey in the Wood River Valley. The vanpool service has been in place for one year and has a ridership of 1500 to 1700 rides per month.
- 30 All these transit services use SH-75.
- 31 Mountain Rides has recently added the City of Hailey to the board of the regional transportation
- organization, joining Sun Valley, Ketchum, Blaine County, and Bellevue. The transportation authority has
- adopted a new vision, mission, and goals for the organization to create a regional, multi-modal "one-stop"
- shop for all transportation modes. As up November 29, 2007, Mountain Rides has adopted a new
- 35 organization structure that has an Executive Director and department heads. This new structure is expected
- to move forward more aggressively to increase the use of transportation alternatives (transit and
- 37 carpooling).
- This rapid growth in the provision and use of transit services, and in the organizational structure that
- 39 provides the services, demonstrates the commitment of the Wood River Valley communities to the role of
- 40 transit and carpooling in meeting their existing and future transportation needs.

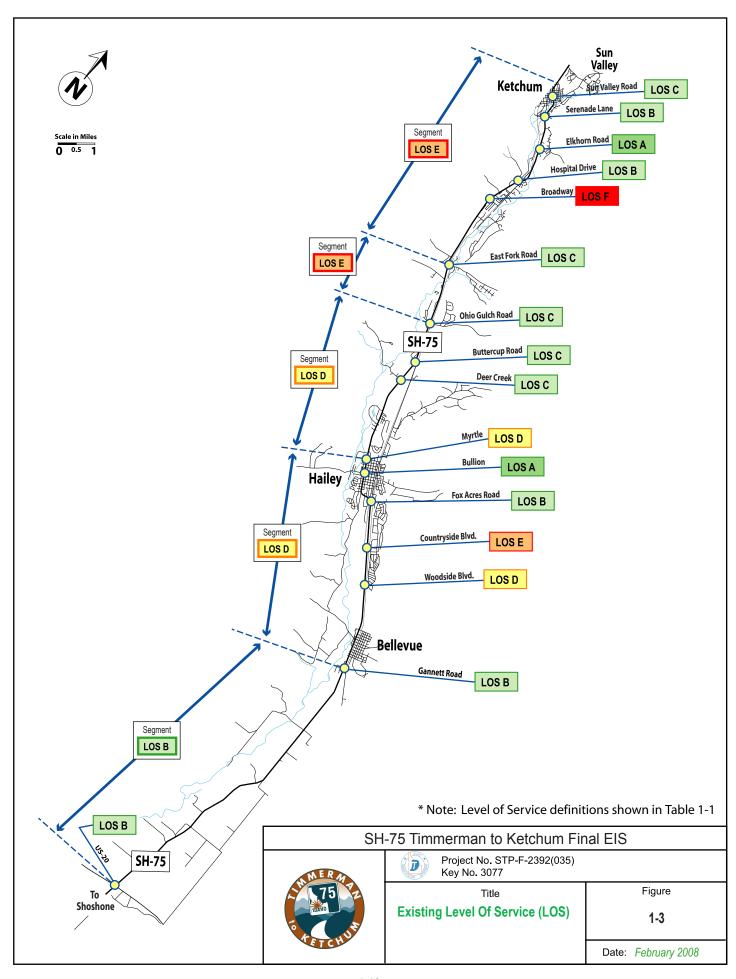
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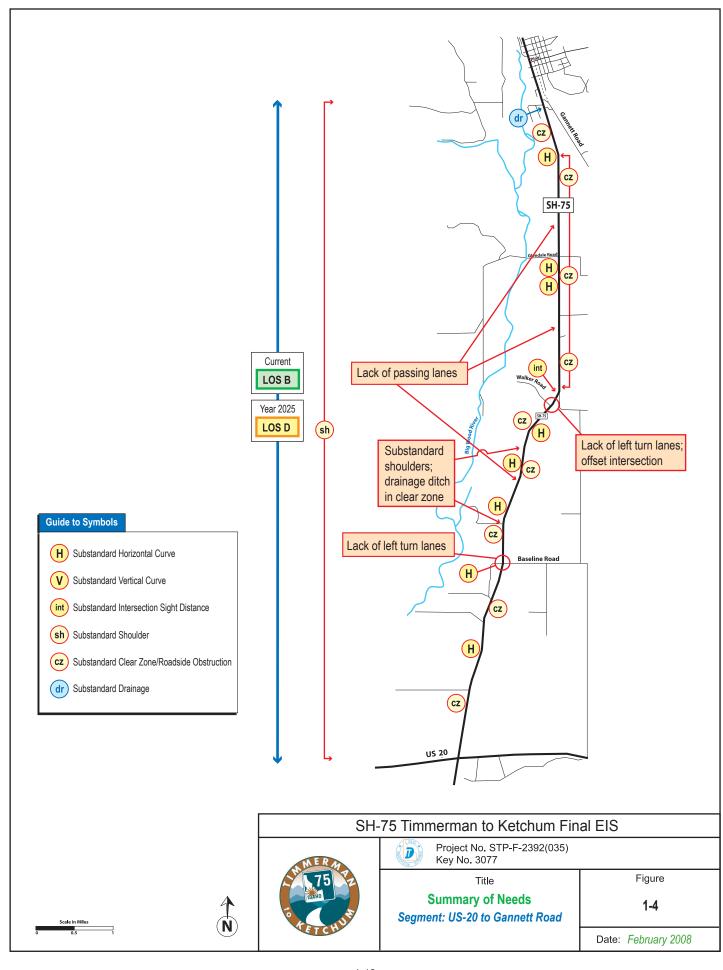
Information and data provided by Jason Miller, Executive Director, Mountain Rides Transportation Authority, December 2007.

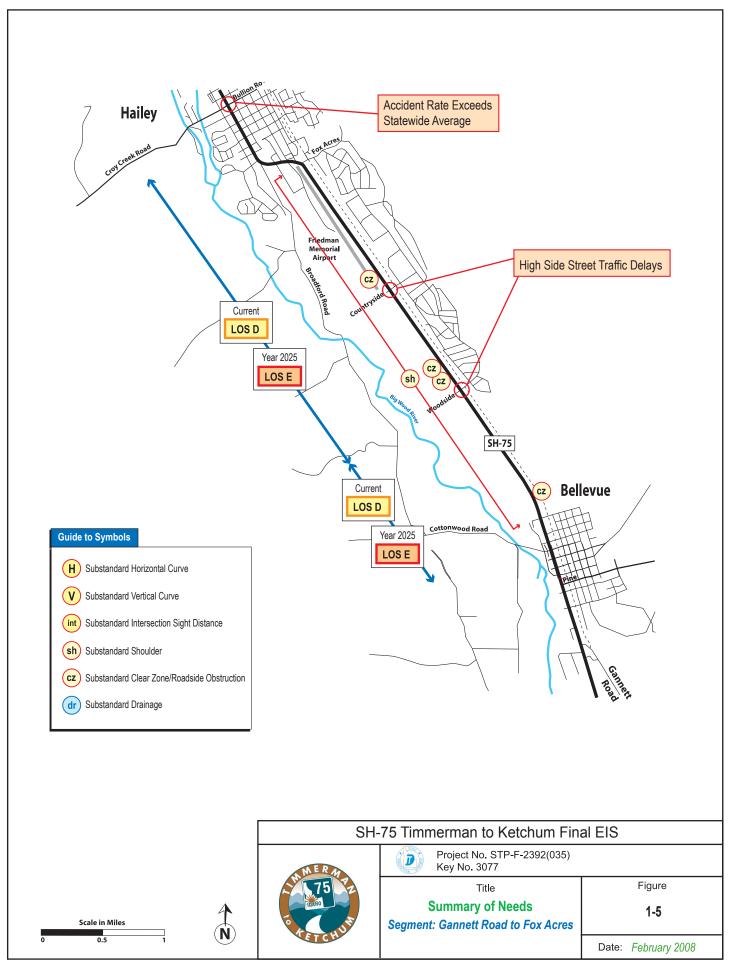
1.3.3 Summary of Needs

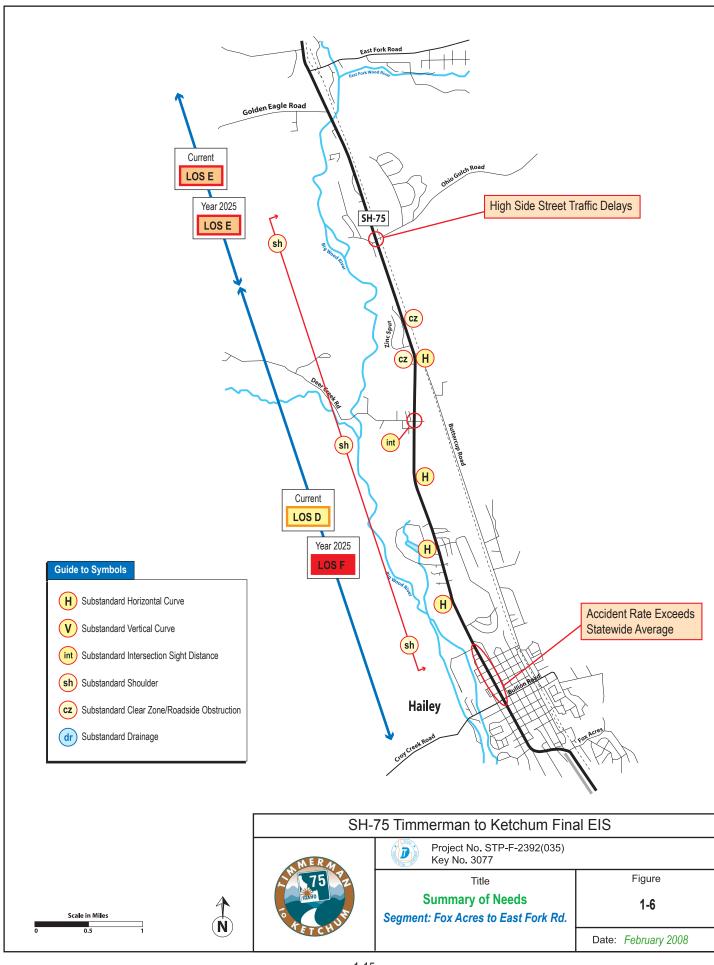
- An analysis of the existing roadway features was a component of identifying the need for improvements on SH-75.
- 4 The definition of substandard roadway geometry is based upon the highway design standards established
- 5 by the American Association of State Highway and Transportation Officials (AASHTO) and those contained
- 6 in the Idaho Transportation Department Design Manual. Roadway geometry includes the horizontal
- 7 alignment (how the roadway curves horizontally and the ability to safety accommodate vehicle travel for a
- 8 given roadway classification), vertical alignment (changes in grade or how the roadway curves up and
- 9 down) and their impact on sight distance. Sight distance and intersection sight distance is the distance a
- driver can see down the highway that allows a driver to stop or slow if a vehicle turns in front of it; or, a
- distance that allows adequate time for a driver on a cross street to decide if it is safe to turn onto or cross
- 12 SH-75.

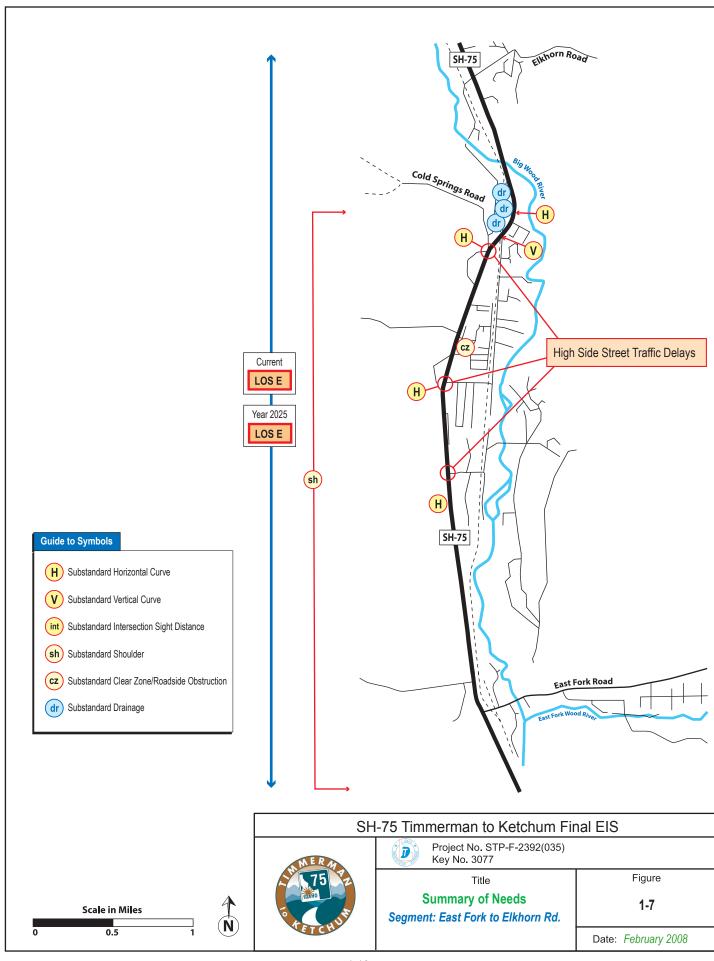
- Width of shoulders is an important component of roadway geometry and safety; AASHTO recommends a
- usable shoulder width of 8 feet for rural arterial roadways with traffic volumes of 2,000 vehicles per day or
- more. Clear zone is another important component. AASHTO defines a clear zone and recovery area for
- 16 roadways depending on traffic volumes and design speeds. The clear zone provides an unobstructed area
- adjacent to the roadway that allows errant vehicles to safely recover or stop if they leave the traveled way.
- This area should be free of obstructions and have slope upon which a vehicle can recover.
- 19 Sections of the existing SH-75 where there is inadequate storm water drainage can result in ponding that
- can create adverse driving conditions, including hydroplaning, and potential safety issues during inclement
- weather.
- Field observations and review of the aerial mapping for SH-75 were used to identify areas of the existing
- highway that are substandard. Figures 1-4 through 1-8 summarize the existing and future Level of Service,
- substandard roadway geometry, substandard drainage and High Accident Locations for SH-75. In
- combination, these characteristics contribute to the need for improvements to SH-75.

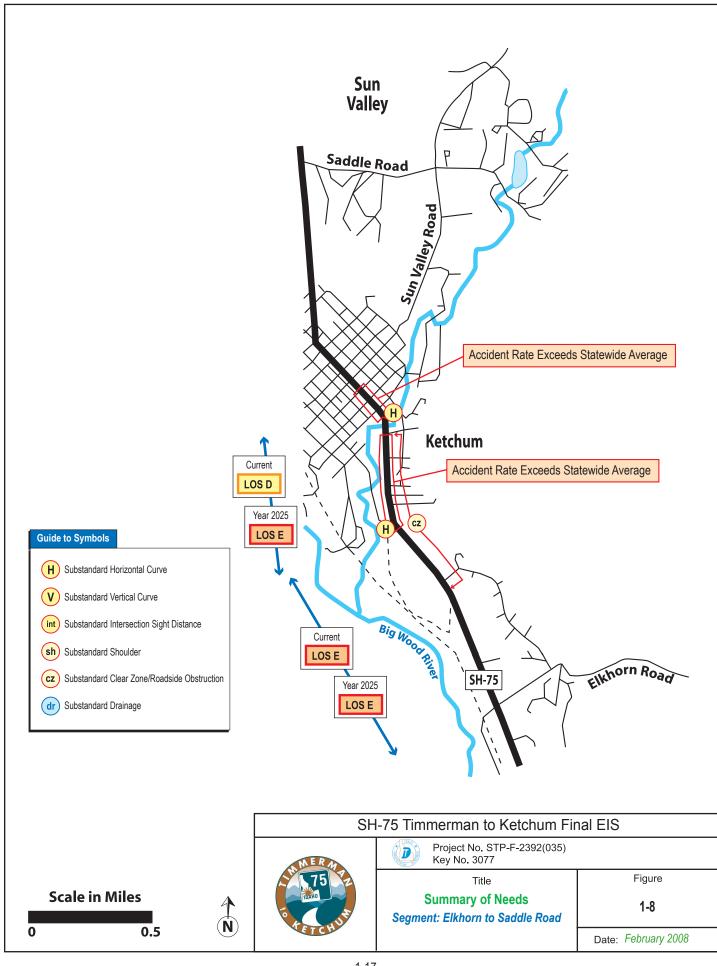












SH-75 Timmerman to Ketchum Final Environmental Impact Statement and Final Section 4(f) Evaluation Project No. STP-F-2392(035), Key No. 3077

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